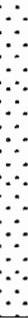


DRILLING LOG		DIVISION South Atlantic	INSTALLATION Jacksonville District	SHEET 1 OF 2 SHEETS
1. PROJECT Duval County FL BEC Borrow Area B1			9. SIZE AND TYPE OF BIT See Remarks	
2. BORING DESIGNATION CB-DUC04-31			10. COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)	
LOCATION COORDINATES X = 415,823 Y = 2,182,305			HORIZONTAL NAD27	
3. DRILLING AGENCY Alpine Ocean Seismic Survey, Inc.			11. MANUFACTURER'S DESIGNATION OF DRILL Vibracore	
CONTRACTOR FILE NO.			<input type="checkbox"/> AUTO HAMMER <input type="checkbox"/> MANUAL HAMMER	
4. NAME OF DRILLER James F. Cole			12. TOTAL SAMPLES 4	
5. DIRECTION OF BORING <input checked="" type="checkbox"/> VERTICAL <input type="checkbox"/> INCLINED			13. TOTAL NUMBER CORE BOXES 1	
DEG. FROM VERTICAL			14. ELEVATION GROUND WATER Tidal	
BEARING			15. DATE BORING 04-18-04	
6. THICKNESS OF OVERBURDEN N/A			16. ELEVATION TOP OF BORING -46.9 Ft.	
7. DEPTH DRILLED INTO ROCK N/A			17. TOTAL RECOVERY FOR BORING 100 %	
8. TOTAL DEPTH OF BORING 19.3 Ft.			18. SIGNATURE AND TITLE OF INSPECTOR William H. Brenner, Geologist <i>William H. Brenner</i>	

ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/1 FT.	N-VALUE
-46.9	0.0						-46.9		
			SAND, poorly-graded, mostly subrounded fine-grained sand-sized quartz, trace angular shell up to 1-1/2", trace silt, weak reaction with HCl, wet, 2" clay lense at 3.5', N 8/ white (SP)	100			Vibracore		
				100	1		-48.9 Vibracore		
							-49.9 Vibracore		
				100			Vibracore		
							-53.4 Vibracore		
				100	2		-54.4 Vibracore		
							Vibracore		
				100			-57.9 Vibracore		
							-58.9 Vibracore		
				100			Vibracore		

At El. -57.9 Ft., some angular shell up to 3", trace fine-grained sand-sized carbonate, strong reaction with HCl, wet, N 8/ white

DRILLING LOG (Cont. Sheet)			INSTALLATION Jacksonville District			SHEET 2 OF 2 SHEETS																	
PROJECT Duval County FL BEC			COORDINATE SYSTEM/DATUM State Plane, FLE (U.S. Ft.)		HORIZONTAL NAD27	VERTICAL MLLW																	
LOCATION COORDINATES X = 415,823 Y = 2,182,305			ELEVATION TOP OF BORING -46.9 Ft.																				
ELEV.	DEPTH	LEGEND	CLASSIFICATION OF MATERIALS	% REC.	BOX OR SAMPLE	RQD OR UD	REMARKS	BLOWS/ 1 FT.	N-VALUE														
-66.2	19.3		At El. -63.9 Ft., trace angular shell up to 1/4", weak reaction with HCl, N 8/ white	100			Vibracore																
				100	4		Vibracore																
				100			Vibracore																
			NOTES: 1. Soils are field visually classified in accordance with the Unified Soils Classification System. 2. Laboratory Testing Results <table border="1"> <thead> <tr> <th>SAMPLE ID</th> <th>SAMPLE DEPTH</th> <th>LABORATORY CLASSIFICATION</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>2.0/3.0</td> <td>SP*</td> </tr> <tr> <td>2</td> <td>6.5/7.5</td> <td>SP*</td> </tr> <tr> <td>3</td> <td>11.0/12.0</td> <td>SP*</td> </tr> <tr> <td>4</td> <td>17.0/18.0</td> <td>SP*</td> </tr> </tbody> </table> *Lab visual classification based on gradation curve. No Atterberg limits. 3. Additional Laboratory Testing 2 Specific Gravity	SAMPLE ID	SAMPLE DEPTH	LABORATORY CLASSIFICATION	1	2.0/3.0	SP*	2	6.5/7.5	SP*	3	11.0/12.0	SP*	4	17.0/18.0	SP*					
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